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NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 MAR 31 IFICDB, IFIPAT, and IFIUDB enhanced with new custom  
IPC display formats  
NEWS 3 MAR 31 CAS REGISTRY enhanced with additional experimental  
spectra  
NEWS 4 MAR 31 CA/CAPLUS and CASREACT patent number format for U.S.  
applications updated  
NEWS 5 MAR 31 LPCI now available as a replacement to LDPCI  
NEWS 6 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 7 APR 04 STN AnaVist, Version 1, to be discontinued  
NEWS 8 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new  
predefined hit display formats  
NEWS 9 APR 28 EMBASE Controlled Term thesaurus enhanced  
NEWS 10 APR 28 IMSRESEARCH reloaded with enhancements  
NEWS 11 MAY 30 INPAFAMDB now available on STN for patent family  
searching  
NEWS 12 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology  
sequence search option  
NEWS 13 JUN 06 EPFULL enhanced with 260,000 English abstracts  
NEWS 14 JUN 06 KOREAPAT updated with 41,000 documents  
NEWS 15 JUN 13 USPATFULL and USPAT2 updated with 11-character  
patent numbers for U.S. applications  
NEWS 16 JUN 19 CAS REGISTRY includes selected substances from  
web-based collections  
NEWS 17 JUN 25 CA/CAPLUS and USPAT databases updated with IPC  
reclassification data  
NEWS 18 JUN 30 AEROSPACE enhanced with more than 1 million U.S.  
patent records  
NEWS 19 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional  
options to display authors and affiliated  
organizations  
NEWS 20 JUN 30 STN on the Web enhanced with new STN AnaVist  
Assistant and BLAST plug-in  
NEWS 21 JUN 30 STN AnaVist enhanced with database content from EPFULL  
NEWS 22 JUL 28 CA/CAPLUS patent coverage enhanced  
NEWS 23 JUL 28 EPFULL enhanced with additional legal status  
information from the EPOline Register  
NEWS 24 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements  
NEWS 25 JUL 28 STN Viewer performance improved  
NEWS 26 AUG 01 INPADOCDB and INPAFAMDB coverage enhanced  
NEWS 27 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts  
page images from 1967-1998  
NEWS 28 AUG 15 CAOLD to be discontinued on December 31, 2008

NEWS 29 AUG 15 CPlus currency for Korean patents enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:05:35 ON 20 AUG 2008

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:05:57 ON 20 AUG 2008  
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STRUCTURE FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3  
DICTIONARY FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdnoc/properties.html>

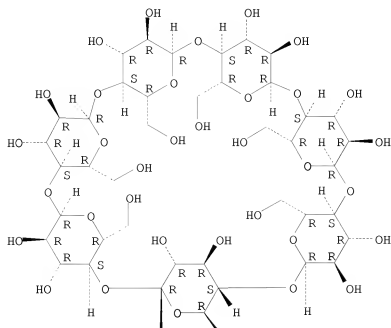
=> s cyclodextrin?/cns and methylimidazo?/cns  
32679 CYCLODEXTRIN?/CNS  
15763 METHYLIMIDAZO?/CNS  
L1 2 CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS  
=> d l1 scan

L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN  $\beta$ -Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium  
hexafluorophosphate (1-) (1:1:1)  
 MF C42 H70 O35 . C16 H31 N2 . F6 P

CM 1

Absolute stereochemistry.

PAGE 1-A

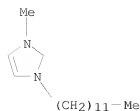


PAGE 2-A



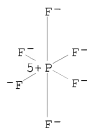
CM 2

CM 3



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

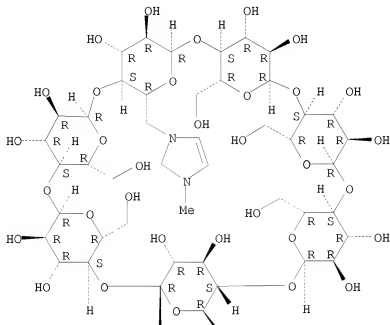
L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN  $\beta$ -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-  
chloride (1:1)

MF C46 H75 N2 O34 . C1

Absolute stereochemistry.

PAGE 1-A





● Cl<sup>-</sup>

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d 11 1-2

L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN

RN 888615-35-8 REGISTRY

ED Entered STN: 21 Jun 2006

CN  $\beta$ -Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium hexafluorophosphate(1-), (1:1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN  $\beta$ -Cyclodextrin, compd. with 1-dodecyl-3-methyl-1H-imidazolium hexafluorophosphate(1-), (1:1) (9CI)

OTHER NAMES:

CN  $\beta$ -Cyclodextrin-1-dodecyl-3-methylimidazolium hexafluorophosphate complex (1:1)

FS STEREOSEARCH

MF C42 H70 O35 . C16 H31 N2 . F6 P

SR CA

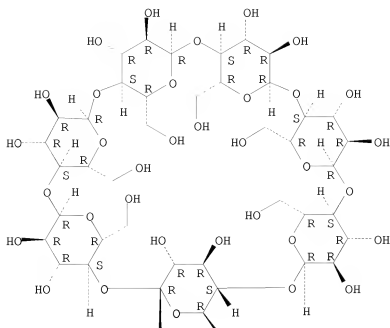
LC STN Files: CA, CAPLUS

CM 1

CRN 7585-39-9

CMF C42 H70 O35

Absolute stereochemistry.

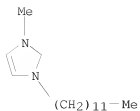


CM 2

CRN 219947-93-0  
CMF C16 H31 N2 . F6 P

CM 3

CRN 46928-10-3  
CMF C16 H31 N2



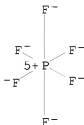
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4

CRN 16919-18-9

CMF F6 P

CCI CCS



2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN

RN 849599-56-0 REGISTRY

ED Entered STN: 02 May 2005

CN  $\beta$ -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN  $\beta$ -Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (9CI)

OTHER NAMES:

CN Mono-6-(3-methylimidazolium)-6-deoxy- $\beta$ -cyclodextrin chloride

FS STEREOSEARCH

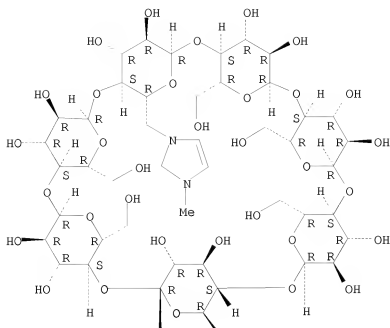
MF C46 H75 N2 O34 . Cl

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

CRN (849599-45-7)

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.76

14.97

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STRUCTURE FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3  
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experimental property data in the original document. For information  
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s l1

32679 CYCLODEXTRIN?/CNS  
15763 METHYLIMIDAZO?/CNS

L2 2 CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.76	25.73

FILE 'CAPLUS' ENTERED AT 17:07:04 ON 20 AUG 2008  
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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8  
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

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=> s l1

L3 8 L1

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=> s 11 and py<=2003
      8 L1
      24009471 PY<=2003
L4      0 L1 AND PY<=2003

=> d 13 scan

L3      8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
IC      ICM C08B037-16
ICS      C07B053-00; C07B063-02; B01D015-08
CC      44-6 (Industrial Carbohydrates)
      Section cross-reference(s): 21
TI      Cationic oligomer of a saccharide for resolving enantiomers and asymmetric
      synthesis
ST      cyclodextrin cationic oligomer enantiomer resolu asym synthesis; chiral
      agent cationic cyclodextrin oligomer enantiomer resolu chromatog
IT      Polysaccharides, preparation
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
      (cationic oligomers; manufacture of cationic oligomer of saccharide for
      resolving enantiomers and asym. synthesis)
IT      Asymmetric synthesis and induction
      Chromatography
      Diels-Alder reaction
      Enantiomers
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)
IT      Inclusion compounds
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)
IT      29390-67-8P, Mono-6-amino-6-deoxy- $\beta$ -cyclodextrin 849599-46-8P
      849599-49-1P 849599-52-6P 849599-56-0P 849599-69-5P
      849599-70-8P 849599-72-0P 849599-73-1P 849599-76-4P 854929-85-4P
      854929-87-6P 854929-89-8P 854929-90-1P 854929-91-2P
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)
IT      74-88-4, Methyl iodide, reactions 107-10-8, n-Propylamine, reactions
      107-11-9, Allylamine 109-73-9, n-Butylamine, reactions 110-58-7,
      n-Pentylamine 110-86-1, Pyridine, reactions 459-57-4,
      4-Fluorobenzaldehyde 616-47-7, 1-Methylimidazole 4316-42-1,
      1-Butylimidazole 7393-43-3, Tetraallyltin 21252-69-7, 1-Octylimidazole
      67217-55-4, 6-O-Tosyl- $\beta$ -cyclodextrin 67217-55-4 128262-67-9
      854929-92-3
      RL: RCT (Reactant); RACT (Reactant or reagent)
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)
IT      854929-94-5P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)
IT      7646-69-7, Sodium hydride
      RL: RGT (Reagent); RACT (Reactant or reagent)
      (manufacture of cationic oligomer of saccharide for resolving enantiomers
      and asym. synthesis)

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IT 136185-86-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(manufacture of cationic oligomer of saccharide for resolving enantiomers  
and asym. synthesis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN

CC 80-4 (Organic Analytical Chemistry)

TI Synthesis and application of single-isomer 6-mono(alkylimidazolium)- $\beta$ -  
cyclodextrins as chiral selectors in chiral capillary electrophoresis  
ST alkylimidazoliumcyclodextrin chiral selector capillary electrophoresis  
dansyl amino acid enantiosepn

IT Amino acids, analysis

RL: ANT (Analyte); ANST (Analytical study)

(aromatic, dansyl; synthesis and application of single-isomer  
mono(alkylimidazolium)- $\beta$ -cyclodextrins as chiral selectors in  
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT Resolution (separation)

(electrophoretic; synthesis and application of single-isomer  
mono(alkylimidazolium)- $\beta$ -cyclodextrins as chiral selectors in  
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT Capillary electrophoresis

(synthesis and application of single-isomer mono(alkylimidazolium)-  
 $\beta$ -cyclodextrins as chiral selectors in capillary electrophoresis  
for enantiosepn. of dansyl amino acids)

IT 1098-50-6, Dansyl-L-valine 1100-22-7, Dansyl-L-leucine 1101-68-4,  
Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 17039-57-5,  
Dansyl-DL-tryptophan 17039-58-6, Dansyl-L-methionine 19461-29-1,  
Dansyl-L-tryptophan 35021-12-6, Dansyl-L-serine 35021-15-9,  
Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3,  
Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0,  
Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 48208-47-5,  
Dansyl-DL-methionine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7,  
Dansyl-L- $\alpha$ -aminobutyric acid 61417-01-4, Dansyl-DL-norleucine  
65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid  
70136-17-3, Dansyl-D-tryptophan 77426-54-1, Dansyl-D-valine  
77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline  
77426-58-5, Dansyl-D- $\alpha$ -aminobutyric acid 77481-08-4,  
Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-10-8,  
Dansyl-D-methionine 77481-11-9 77481-12-0, Dansyl-DL- $\alpha$ -  
aminobutyric acid 95465-24-0, Dansyl-D-glutamic acid 99388-22-4,  
Dansyl-D-leucine 162489-44-3 162489-45-4 171202-09-8

RL: ANT (Analyte); ANST (Analytical study)

(analyte; synthesis and application of single-isomer  
mono(alkylimidazolium)- $\beta$ -cyclodextrins as chiral selectors in  
capillary electrophoresis for enantiosepn. of dansyl amino acids)

IT 616-47-7, 1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole  
4316-42-1, 1-Butylimidazole 33529-02-1, 1-Decylimidazole 67217-55-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(in synthesis of single-isomer mono(alkylimidazolium)- $\beta$ -  
cyclodextrins as chiral selectors in capillary electrophoresis)

IT 77426-55-2, Dansyl-D-norvaline

RL: ANT (Analyte); ANST (Analytical study)

(synthesis and application of single-isomer mono(alkylimidazolium)-  
 $\beta$ -cyclodextrins as chiral selectors in capillary electrophoresis  
for enantiosepn. of dansyl amino acids)

IT 849599-46-8P 849599-49-1P 849599-55-9P 849599-56-0P  
849599-58-2P 849599-60-6P 873221-12-6P 873221-17-1P

RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);  
PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);  
PREP (Preparation); USES (Uses)  
(synthesis and application of single-isomer mono(alkylimidazolium)-  
 $\beta$ -cyclodextrins as chiral selectors in capillary electrophoresis  
for enantiosepn. of dansyl amino acids)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN  
CC 46-3 (Surface Active Agents and Detergents)  
TI Inclusion Complexes of  $\beta$ -Cyclodextrin with Ionic Liquid Surfactants  
ST cyclodextrin long alkyl methylimidazolium hexafluorophosphate inclusion  
complex surface tension  
IT Ionic liquids  
Surface tension  
Surfactants  
(inclusion complexes of  $\beta$ -cyclodextrin with ionic liquid  
surfactants)  
IT Inclusion compounds  
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,  
nonpreparative)  
(inclusion complexes of  $\beta$ -cyclodextrin with ionic liquid  
surfactants)  
IT 888615-35-8,  $\beta$ -Cyclodextrin-1-dodecyl-3-methylimidazolium  
hexafluorophosphate complex (1:1) 888615-36-9 888615-37-0  
888615-38-1 888615-39-2  
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,  
nonpreparative)  
(inclusion complexes of  $\beta$ -cyclodextrin with ionic liquid  
surfactants)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN  
CC 33-4 (Carbohydrates)  
TI Complex formation of ionic liquid surfactant and  $\beta$ -cyclodextrin  
ST dodecylmethylimidazolium fluorophosphate ionic liq surfactant cyclodextrin  
inclusion complex formation  
IT Inclusion reaction  
Ionic liquids  
(complex formation of ionic liquid surfactant and  $\beta$ -cyclodextrin)  
IT Inclusion compounds  
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,  
nonpreparative)  
(complex formation of ionic liquid surfactant and  $\beta$ -cyclodextrin)  
IT 888615-35-8 888615-38-1  
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,  
nonpreparative)  
(complex formation of ionic liquid surfactant and  $\beta$ -cyclodextrin)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS ON STN  
CC 80-4 (Organic Analytical Chemistry)  
TI Effect of alkylimidazolium substituents on enantioseparation ability of  
single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivatives in  
capillary electrophoresis  
ST alkylimidazolium cyclodextrin chiral selector dansyl amino acid

- enantiosepn electrophoresis; substituent effect alkylimidazolium cyclodextrin chiral selector enantiosepn electrophoresis
- IT Amino acids, analysis  
 RL: ANT (Analyte); ANST (Analytical study)  
 (aromatic, dansyl, analytes; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT Capillary electrophoresis  
 (effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT Molecular structure-property relationship  
 (electrophoresis, of mono(alkylimidazolium)- $\beta$ -cyclodextrins; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT Resolution (separation)  
 (electrophoretic; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT 1098-50-6, Dansyl-L-valine 1101-68-4, Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 35021-12-6, Dansyl-L-serine 35021-15-9, Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3, Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7, Dansyl-L- $\alpha$ -aminobutyric acid 61417-01-4, Dansyl-DL-norleucine 68973-58-0, Dansyl-DL-glutamic acid 77426-54-1, Dansyl-D-valine 77426-55-2, Dansyl-D-norvaline 77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline 77426-58-5, Dansyl-D- $\alpha$ -aminobutyric acid 77481-08-4, Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-11-9 77481-12-0, Dansyl-DL- $\alpha$ -aminobutyric acid 95465-24-0, Dansyl-Dglutamic acid 162489-44-3, Dansyl-L- $\alpha$ -aminocaprylic acid 162489-45-4, Dansyl-D- $\alpha$ -aminocaprylic acid 171202-09-8, Dansyl-DL- $\alpha$ -aminocaprylic acid  
 RL: ANT (Analyte); ANST (Analytical study)  
 (analyte; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT 849599-56-0  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)  
 (chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT 930276-66-7  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); ANST (Analytical study); USES (Uses)  
 (chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT 849599-58-2 930276-68-9  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)  
 (effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary electrophoresis)
- IT 930276-67-8  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);

PRP (Properties); ANST (Analytical study); USES (Uses)  
(effect of alkylimidazolium substituents on enantiosepn. ability of  
single-isomer alkylimidazolium- $\beta$ -cyclodextrin derivs. in capillary  
electrophoresis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN  
CC 34-2 (Amino Acids, Peptides, and Proteins)  
Section cross-reference(s): 80  
TI Chiral separation of dansyl amino acids in capillary electrophoresis using  
mono-(3-methyl-imidazolium)- $\beta$ -cyclodextrin chloride as selector  
ST dansylamino acid enantiosepn capillary electrophoresis  
methylimidazoliumcyclodextrin chloride chiral selector  
IT Amino acids, preparation  
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); PUR  
(Purification or recovery); ANST (Analytical study); PREP (Preparation);  
PROC (Process)  
(aromatic, dansyl; enantiosepn. of dansylamino acids via capillary  
electrophoresis using mono(methylimidazolium)cyclodextrin chloride as  
chiral selector)  
IT Capillary electrophoresis  
Resolution (separation)  
(enantiosepn. of dansylamino acids via capillary electrophoresis using  
mono(methylimidazolium)cyclodextrin chloride as chiral selector)  
IT 17039-57-5, Dansyl-DL-tryptophan 42808-04-8, Dansyl-DL-alanine  
42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine  
42808-07-1, Dansyl-DL-aspartic acid 48196-47-0, Dansyl-DL-serine  
48208-47-5, Dansyl-DL-methionine 61417-01-4, Dansyl-DL-norleucine  
65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid  
77426-57-4, Dansyl-DL-norvaline 77481-11-9 77481-12-0 171202-09-8  
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST  
(Analytical study); PROC (Process)  
(enantiosepn. of dansylamino acids via capillary electrophoresis using  
mono(methylimidazolium)cyclodextrin chloride as chiral selector)  
IT 1098-50-6P, Dansyl-L-valine 1100-22-7P, Dansyl-L-leucine 1100-24-9P,  
Dansyl-L-aspartic acid 1101-68-4P, Dansyl-L-glutamic acid 1104-36-5P,  
Dansyl-L-phenylalanine 17039-58-6P, Dansyl-L-methionine 19461-29-1P,  
Dansyl-L-tryptophan 35021-10-4P, Dansyl-L-alanine 35021-12-6P,  
Dansyl-L-serine 35021-15-9P, Dansyl-L-norvaline 35021-16-0P,  
Dansyl-L-threonine 35021-19-3P, Dansyl-L-norleucine 56176-31-9P,  
Dansyl-D-phenylalanine 56176-32-0P, Dansyl-D-alanine 58260-76-7P  
70136-17-3P, Dansyl-D-tryptophan 77426-54-1P, Dansyl-D-valine  
77426-55-2P, Dansyl-D-norvaline 77426-56-3P, Dansyl-D-norleucine  
77426-58-5P 77481-08-4P, Dansyl-D-threonine 77481-09-5P,  
Dansyl-D-serine 77481-10-8P, Dansyl-D-methionine 95465-24-0P,  
Dansyl-D-glutamic acid 95465-25-1P, Dansyl-D-aspartic acid  
99388-22-4P, Dansyl-D-leucine 162489-44-3P 162489-45-4P  
RL: ANT (Analyte); PUR (Purification or recovery); ANST (Analytical  
study); PREP (Preparation)  
(enantiosepn. of dansylamino acids via capillary electrophoresis using  
mono(methylimidazolium)cyclodextrin chloride as chiral selector)  
IT 849599-56-0  
RL: ARU (Analytical role, unclassified); ANST (Analytical study)  
(enantiosepn. of dansylamino acids via capillary electrophoresis using  
mono(methylimidazolium)cyclodextrin chloride as chiral selector)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN  
 CC 80-4 (Organic Analytical Chemistry)  
 TI Synthesis and application of mono-6-(3-methylimidazolium)-6-deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for high-performance liquid chromatography and supercritical fluid chromatography  
 ST methylimidazolium deoxyperphenylcarbamoyl cyclodextrin chiral phase HPLC arom alc enantiosepn; supercrit fluid chromatog methylimidazolium deoxyperphenylcarbamoyl cyclodextrin chloride chiral phase  
 IT Alcohols, analysis  
 RL: ANT (Analyte); ANST (Analytical study)  
 (aralkyl; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT HPLC stationary phases  
 (chiral; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT Resolution (separation)  
 (chromatog.; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT Supercritical fluid chromatography  
 (stationary phases; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT Chromatographic stationary phases  
 (supercrit. fluid; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT 98-85-1, (+)-1-Phenylethanol 403-41-8, (+)-1-(4-Fluorophenyl)ethanol 1445-91-6, (-)-1-Phenylethanol 1517-69-7, (+)-1-Phenylethanol 3391-10-4, (+)-1-(4-Chlorophenyl)ethanol 5391-88-8, (+)-1-(4-Bromophenyl)ethanol 53207-29-7, (+)-1-(4-Iodophenyl)ethanol 60301-59-9 75968-40-0, (+)-1-(4-Chlorophenyl)ethanol 76155-78-7, (+)-1-(4-Bromophenyl)ethanol 99528-42-4, (-)-1-(4-Chlorophenyl)ethanol 100760-04-1, (-)-1-(4-Bromophenyl)ethanol 101219-68-5, (+)-1-(4-Fluorophenyl)ethanol 101219-73-2, (-)-1-(4-Fluorophenyl)ethanol 104013-25-4, (-)-1-(4-Iodophenyl)ethanol 113842-31-2 136185-86-9, (+)-1-(4-Fluorophenyl)-3-buten-1-ol 144486-12-4 186587-45-1 189107-38-8 215320-36-8 220089-24-7, (+)-1-(4-Iodophenyl)ethanol 221898-37-9 238091-03-7 255884-18-5 255884-19-6, (+)-1-(4-Fluorophenyl)-3-buten-1-ol 335022-72-5 879005-60-4, (-)-1-(4-Fluorophenyl)-3-buten-1-ol 1014975-81-5 1014975-82-6  
 RL: ANT (Analyte); ANST (Analytical study)  
 (synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT 1015048-23-3P  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)  
 (synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)  
 IT 103-71-9, Phenyl isocyanate, reactions 849599-56-0,

Mono-6-(3-methylimidazolium)-6-deoxy- $\beta$ -cyclodextrin chloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthesis and application of mono(methylimidazolium)deoxyperphenylcarb  
 amoyl- $\beta$ -cyclodextrin chloride as chiral stationary phases for HPLC  
 and supercrit. fluid chromatog.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN  
 CC 80-4 (Organic Analytical Chemistry)  
 TI Synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantioseparation of anionic analytes  
 ST ammonium substituted cyclodextrin prepn anionic analyte enantiosepn  
 IT Carboxylic acids, analysis  
 RL: ANT (Analyte); ANST (Analytical study)  
 (analytes; synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes)  
 IT Amino acids, analysis  
 RL: ANT (Analyte); ANST (Analytical study)  
 (aromatic, dansyl, analytes; synthesis of ammonium substituted  
 $\beta$ -cyclodextrins for enantiosepn. of anionic analytes)  
 IT Resolution (separation)  
 (electrophoretic; synthesis of ammonium substituted  
 $\beta$ -cyclodextrins for enantiosepn. of anionic analytes by capillary  
 electrophoresis)  
 IT Capillary electrophoresis  
 (synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes by capillary electrophoresis)  
 IT 772-14-5, (-)-3-Phenylbutyric acid 772-15-6, (+)-3-Phenylbutyric acid  
 4593-90-2, ( $\pm$ )-3-Phenylbutyric acid 35021-12-6, L-Dansyl serine  
 35021-15-9, L-Dansyl norvaline 48196-47-0, DL-Dansyl serine  
 77426-55-2, D-Dansyl norvaline 77426-57-4, DL-Dansyl norvaline  
 77481-09-5, D-Dansyl serine  
 RL: ANT (Analyte); ANST (Analytical study)  
 (analyte; synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes)  
 IT 74-88-4, Methyl iodide, reactions 107-10-8, n-Propylamine, reactions  
 107-11-9, Allylamine 109-73-9, n-Butylamine, reactions 110-58-7,  
 n-Pentylamine 110-86-1, Pyridine, reactions 616-47-7,  
 1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole 4316-42-1,  
 1-Butylimidazole 21252-69-7, 1-Octylimidazole 67217-55-4 84346-54-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (in preparation of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes)  
 IT 849599-49-1P 849599-52-6P 849599-55-9P 849599-56-0P  
 849599-58-2P 849599-60-6P 849599-63-9P 849599-66-2P 849599-68-4P  
 849599-69-5P 849599-70-8P 849599-72-0P 849599-73-1P 849599-76-4P  
 849599-78-6P  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);  
 PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);  
 PREP (Preparation); USES (Uses)  
 (synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes)  
 IT 849599-46-8P  
 RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);  
 PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);  
 PREP (Preparation); USES (Uses)  
 (synthesis of ammonium substituted  $\beta$ -cyclodextrins for  
 enantiosepn. of anionic analytes by capillary electrophoresis)

ALL ANSWERS HAVE BEEN SCANNED

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	28.33

FILE 'REGISTRY' ENTERED AT 17:07:53 ON 20 AUG 2008  
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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s cyclodextrin?/cns and tosyl?/cns

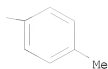
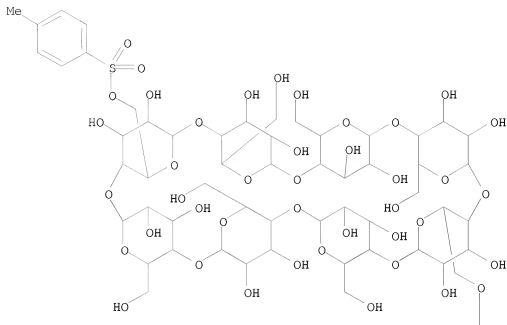
32679 CYCLODEXTRIN?/CNS

3688 TOSYL?/CNS

L5 18 CYCLODEXTRIN?/CNS AND TOSYL?/CNS

=> d l5 scan

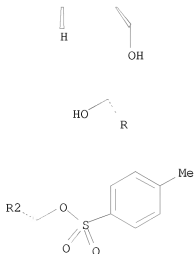
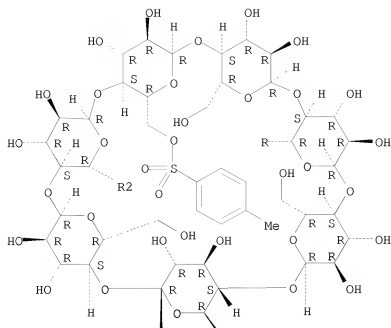
L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN  $\gamma$ -Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)  
MF C62 H92 O44 S2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN β-Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate)  
 MF C56 H82 O39 S2  
 CI COM

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

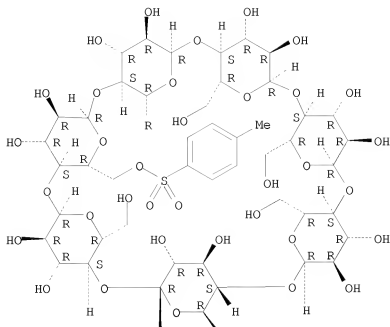
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN  $\beta$ -Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-,  
6B-(4-methylbenzenesulfonate), monosodium salt (9CI)  
 MF C56 H81 N O38 S . Na

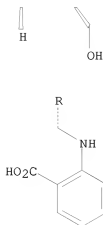
CI COM

Absolute stereochemistry.

PAGE 1-A



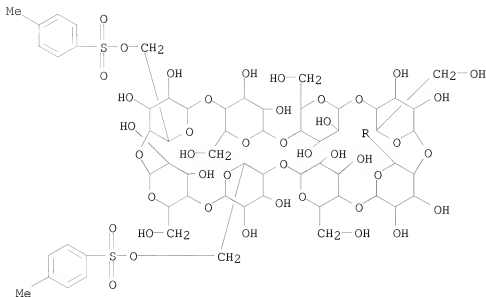
PAGE 2-A



● Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN  $\gamma$ -Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (9CI)



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d 15 1-

YOU HAVE REQUESTED DATA FROM 18 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 680183-93-1 REGISTRY

ED Entered STN: 06 May 2004

CN  $\beta$ -Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6D-(4-methylbenzenesulfonate), monosodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6A-Anthranilate-6D-O-p-tosyl- $\beta$ -cyclodextrin

FS STEREOSEARCH

MF C56 H81 N O38 S . Na

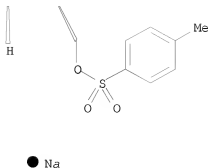
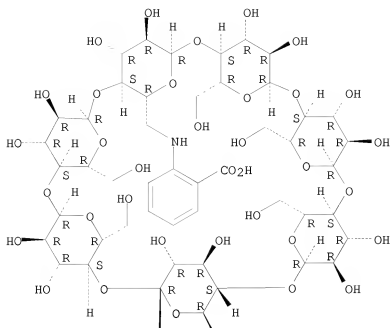
CI COM

SR CA

LC STN Files: CA, CAPLUS, CASREACT

CRN (679816-40-1)

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

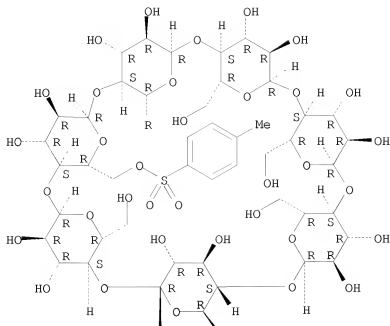
L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 680183-92-0 REGISTRY  
ED Entered STN: 06 May 2004  
CN  $\beta$ -Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6B-(4-methylbenzenesulfonate), monosodium salt (9CI) (CA INDEX NAME)

## OTHER NAMES:

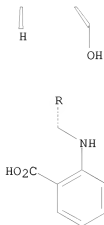
CN 6A-Anthranilate-6B-O-p-tosyl- $\beta$ -cyclodextrin  
FS STEREOSEARCH  
MF C56 H81 N O38 S . Na  
CI COM  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT  
CRN (679816-05-8)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



● Na

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 679816-23-0 REGISTRY  
ED Entered STN: 05 May 2004

CN  $\beta$ -Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-,  
6C-(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6A-Anthranilate-6C-O-p-tosyl- $\beta$ -cyclodextrin

FS STEREOSEARCH

MF C56 H81 N O38 S

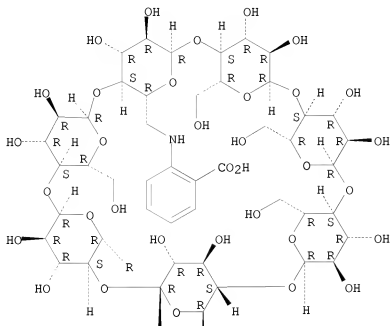
CI COM

SR CA

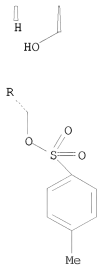
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 146469-71-8 REGISTRY

ED Entered STN: 16 Mar 1993

CN  $\alpha$ -Cyclodextrin, 2A, 2B, 2C, 2D, 2E, 2F-hexakis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo(26.2.2.23,6.28,11,213,16.218,21,223,26)dotetracontane,  $\alpha$ -cyclodextrin deriv.

OTHER NAMES:

CN Hexakis(2-O-tosyl)- $\alpha$ -cyclodextrin

FS STEREOSEARCH

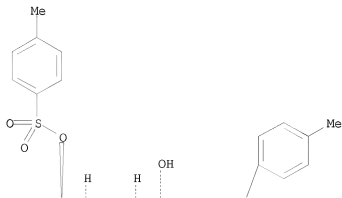
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SR CA

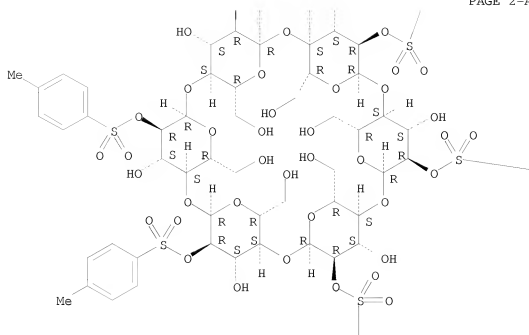
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

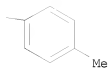
PAGE 1-A



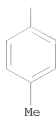
PAGE 2-A



PAGE 2-B



PAGE 3-A



3 REFERENCES IN FILE CA (1907 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 122566-69-2 REGISTRY

ED Entered STN: 08 Sep 1989

CN  $\beta$ -Cyclodextrin, 2A, 2B, 2C, 2D, 2E, 2F, 2G-heptakis(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29, 32, 34-Tetradecaooxactacyclo(31.2.2.23, 6.28, 11.213, 16.218, 21.223, 26.228, 31/nonatetracontane,  $\beta$ -cyclodextrin deriv.

OTHER NAMES:

CN Heptakis(2-O-tosyl)- $\beta$ -cyclodextrin

FS STEREOSEARCH

DR 137147-03-6

MF C91 H112 O49 S7

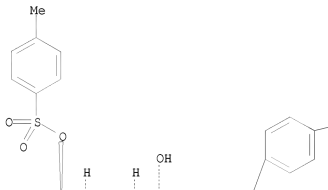
CI COM

SR CA

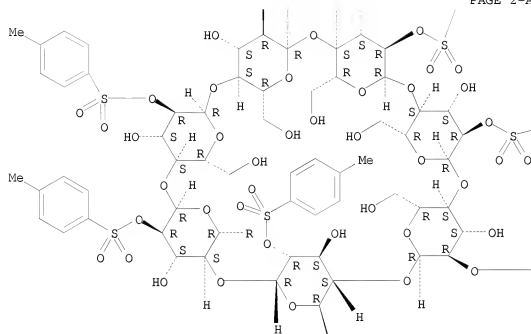
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL  
(\*File contains numerically searchable property data)

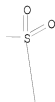
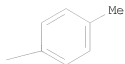
Absolute stereochemistry.

PAGE 1-A



Me





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

7 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

RN 104901-63-5 REGISTRY

ED Entered STN: 25 Oct 1986

CN  $\gamma$ -Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)  
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-

Hexadecaaxanonaacyclo[36.2.2.2.3.6.28.11.213.16.218.21.223.26.228.31.233.36]  
hexapentacontane,  $\gamma$ -cyclodextrin deriv.

OTHER NAMES:

CN 6A,6E-Di(p-tosyl)- $\gamma$ -cyclodextrin

FS STEREOSEARCH

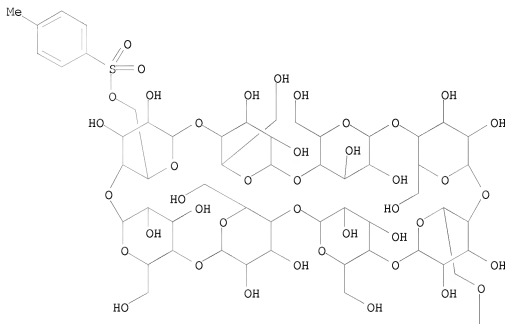
MF C62 H92 O44 S2

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT

(\*File contains numerically searchable property data)

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

13 REFERENCES IN FILE CA (1907 TO DATE)  
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 104867-16-5 REGISTRY  
ED Entered STN: 25 Oct 1986  
CN  $\gamma$ -Cyclodextrin, 6A, 6D-bis(4-methylbenzenesulfonate) (9CI)  
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2, 4, 7, 9, 12, 14, 17, 19, 22, 24, 27, 29, 32, 34, 37, 39-  
Hexadecaaxanonaacyclo[36.2.2.23, 6.28, 11.213, 16.218, 21.223, 26.228, 31.233, 36]  
hexapentacontane,  $\gamma$ -cyclodextrin deriv.

OTHER NAMES:

CN 6A, 6D-Di(p-tosyl)- $\gamma$ -cyclodextrin

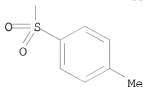
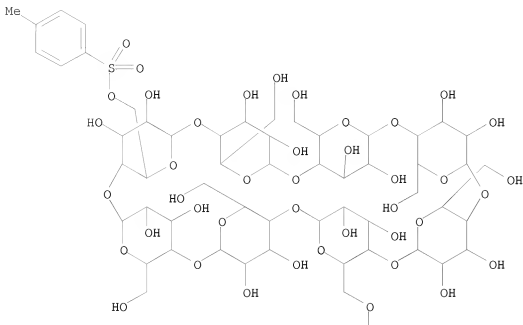
FS STEREOSEARCH

MF C62 H92 O44 S2

CI COM

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

11 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 104867-15-4 REGISTRY

ED Entered STN: 25 Oct 1986

CN *γ*-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (9CI)  
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-  
Hexadecaaxanonaacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]  
hexapentacontane, *γ*-cyclodextrin deriv.

OTHER NAMES:

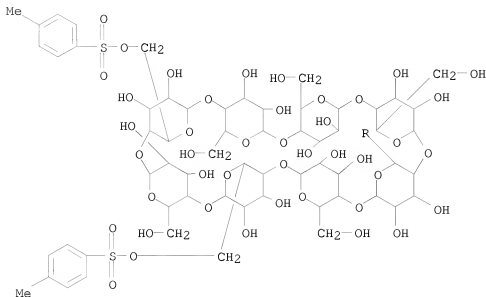
CN 6A,6C-Di(p-tosyl)-*γ*-cyclodextrin

FS STEREOSEARCH

MF C62 H92 O44 S2

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT



10 REFERENCES IN FILE CA (1907 TO DATE)  
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 97227-33-3 REGISTRY  
ED Entered STN: 21 Jul 1985  
CN *γ-Cyclodextrin, 6A-(4-methylbenzenesulfonate)* (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaaxanacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.*

OTHER NAMES:

CN *γ-Cyclodextrin 6-monotosylate*  
CN *6-O-Tosyl-γ-cyclodextrin*  
CN *Mono-6-(p-tolylsulfonyl)-γ-cyclodextrin*  
CN *Mono-6-O-tosyl-γ-cyclodextrin*

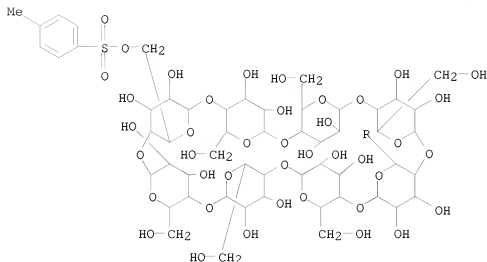
FS STEREOSEARCH

DR 500313-14-4

MF C55 H86 O42 S

CI COM

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

23 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 23 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 95509-72-1 REGISTRY

ED Entered STN: 23 Mar 1985

CN β-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (CA  
 INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaaxoactacyclo[31.2.2.23  
 ,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin  
 deriv.

OTHER NAMES:

CN 6A,6C-Di(p-tosyl)-β-cyclodextrin

CN 6A,6C-Di-O-(p-tosyl)-β-cyclodextrin

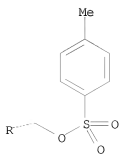
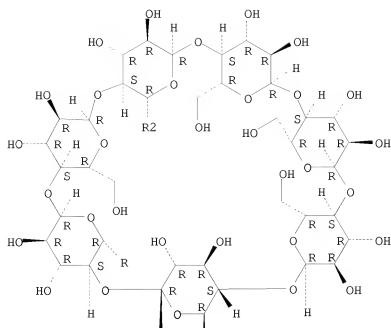
FS STEREOSEARCH

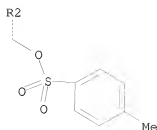
DR 98853-89-5

MF C56 H82 O39 S2

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

18 REFERENCES IN FILE CA (1907 TO DATE)  
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 95475-65-3 REGISTRY  
ED Entered STN: 23 Mar 1985  
CN  $\beta$ -Cyclodextrin, 6A,6D-bis(4-methylbenzenesulfonate) (CA  
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaooctacyclo[31.2.2.23  
6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,  $\beta$ -cyclodextrin  
deriv.

OTHER NAMES:

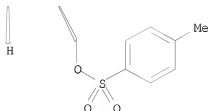
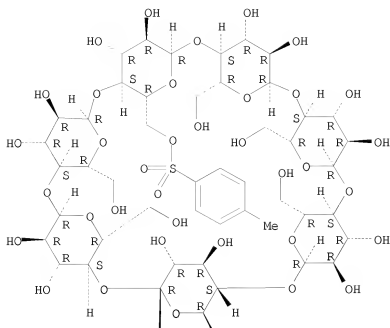
CN 6A,6D-Di(p-tosyl)- $\beta$ -cyclodextrin  
CN 6A,6D-Di-O-(p-tosyl)- $\beta$ -cyclodextrin

FS STEREOSEARCH

MF C56 H82 O39 S2

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19 REFERENCES IN FILE CA (1907 TO DATE)

19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 95475-64-2 REGISTRY

ED Entered STN: 23 Mar 1985

CN β-Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate) (CA  
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaaoctacyclo[31.2.2.23  
.6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin  
deriv.

OTHER NAMES:

CN 6A,6B-Di(p-tosyl)-β-cyclodextrin

CN 6A,6B-Di-O-(p-tosyl)-β-cyclodextrin

FS STEREOSEARCH

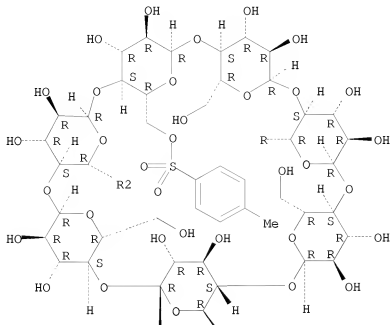
MF C56 H82 O39 S2

CI COM

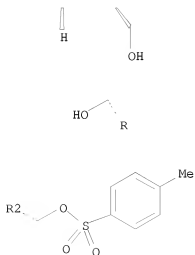
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

17 REFERENCES IN FILE CA (1907 TO DATE)

17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 84216-71-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN  $\beta$ -Cyclodextrin, 2A-(4-methylbenzenesulfonate) (CA INDEX  
 NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradeca-octa-cyclo[31.2.2.23  
 ,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,  $\beta$ -cyclodextrin  
 deriv.

OTHER NAMES:

CN Mono(2-O-tosyl)- $\beta$ -cyclodextrin

FS STEREOSEARCH

MF C49 H76 O37 S

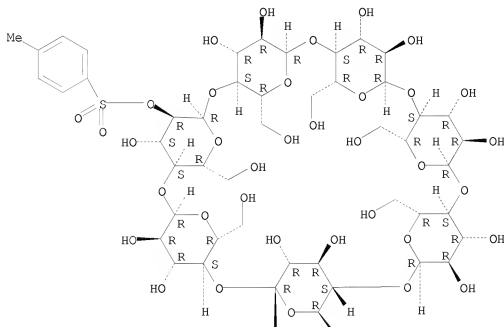
CI COM

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER,  
 USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

62 REFERENCES IN FILE CA (1907 TO DATE)  
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 76859-40-0 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN  $\beta$ -Cyclodextrin, 3A-(4-methylbenzenesulfonate) (9CI) (CA  
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaaxoactacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,  $\beta$ -cyclodextrin deriv.

OTHER NAMES:

CN 3-O-(p-Tosyl)- $\beta$ -cyclodextrin

CN 3-Tosyl-O- $\beta$ -cyclodextrin

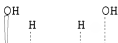
FS STEREOSEARCH

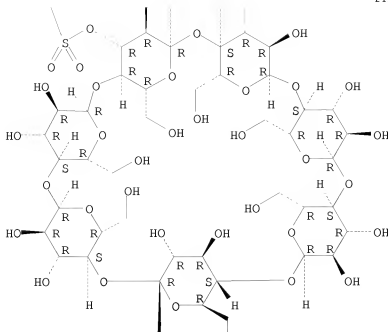
MF C49 H76 O37 S

LC STN Files: BEILSTEIN\*, CA, CAPLUS  
(\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

5 REFERENCES IN FILE CA (1907 TO DATE)  
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 67217-55-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN  $\beta$ -Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,  $\beta$ -cyclodextrin deriv.

OTHER NAMES:

CN  $\beta$ -Cyclodextrin 6-monotosylate

CN  $\beta$ -Cyclodextrin 6-tosylate

CN 6-O-(p-Tolylsulfonyl)cyclomaltoheptaose

CN 6-O-(p-Tosyl)- $\beta$ -cyclodextrin

CN 6-O-Tosyl- $\beta$ -cyclodextrin

CN Mono(6-O-p-tolylsulfonyl)- $\beta$ -cyclodextrin

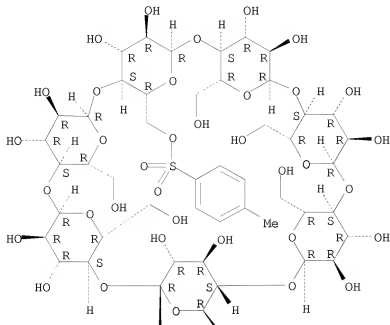
CN Mono-6-(p-tolylsulfonyl)- $\beta$ -cyclodextrin

CN Mono-6-O-tosyl- $\beta$ -cyclodextrin

CN Mono[6-O-(p-toluenesulfonyl)]-β-cyclodextrin  
 FS STEREOSEARCH  
 DR 854929-93-4, 864380-56-3, 150507-43-0  
 MF C49 H76 O37 S  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT,  
 IFIUDB, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

430 REFERENCES IN FILE CA (1907 TO DATE)  
 22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 433 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 32860-56-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN α-Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX  
 NAME)  
 OTHER CA INDEX NAMES:

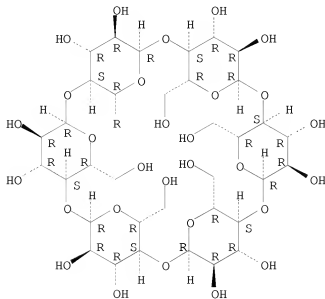
CN *α*-Cyclodextrin, 6-p-toluenesulfonate (8CI)  
 CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11,213,16.218,21.223,26]dotetracontane, *α*-cyclodextrin deriv.

OTHER NAMES:

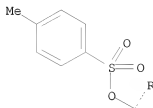
CN 6-O-Tosyl-*α*-cyclodextrin  
 FS STEREOSEARCH  
 MF C43 H66 O32 S  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, USPATFULL  
 (\*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

36 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 37 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 21884-25-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN *α*-Cyclodextrin, 6A, 6B, 6C, 6D, 6E, 6F-hexakis(4-

methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN  $\alpha$ -Cyclodextrin, 6, 6', 6'', 6''', 6'''', 6'''''-hexa-p-  
toluenesulfonate (8CI)

CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.2.3,6.28,11  
.213,16.218,21.223,26]dotetracontane,  $\alpha$ -cyclodextrin deriv.

OTHER NAMES:

CN  $\alpha$ -Cyclodextrin 6-tosylate

FS STEREOSEARCH

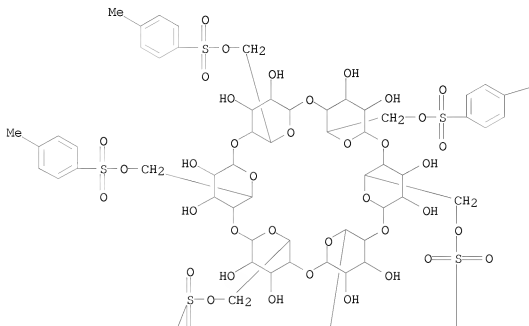
DR 32201-11-9

MF C78 H96 O42 S6

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER

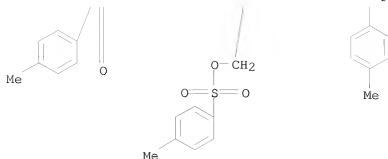
(\*File contains numerically searchable property data)

PAGE 1-A



PAGE 1-B

Me



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10 REFERENCES IN FILE CA (1907 TO DATE)  
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e methylimidazole

E1	5	METHYLIMIDAZOLATE/BI
E2	24	METHYLIMIDAZOLATO/BI
E3	1233 -->	METHYLIMIDAZOLE/BI
E4	2	METHYLIMIDAZOLEACETIC/BI
E5	1	METHYLIMIDAZOLECELLUL/BI
E6	1	METHYLIMIDAZOLECELLULOSE/BI
E7	1	METHYLIMIDAZOLEPROPION/BI
E8	1	METHYLIMIDAZOLEPROPIONAMIDE/BI
E9	1	METHYLIMIDAZOLETHIOL/BI
E10	2	METHYLIMIDAZOLI/BI
E11	1	METHYLIMIDAZOLID/BI
E12	2	METHYLIMIDAZOLIDI/BI

=> e methylimidazole/cn

E1	1	METHYLILLUKUMBIN A/CN
E2	1	METHYLILLUKUMBIN B/CN
E3	1 -->	METHYLIMIDAZOLE/CN
E4	1	METHYLIMIDAZOLE HYDROCHLORIDE/CN
E5	1	METHYLIMIDAZOLIUM PICRATE/CN
E6	1	METHYLIMIDE/CN
E7	1	METHYLIMIDOBIS (THIOPHOSPHORYL) CHLORIDE/CN
E8	1	METHYLIMIDODIACETIC ACID/CN
E9	1	METHYLIMIDODIPHOSPHORUS TETRACHLORIDE/CN
E10	1	METHYLIMIDODIPHOSPHORYL CHLORIDE/CN
E11	1	METHYLIMIDODIACETIC ACID/CN
E12	1	METHYLIMIDOSULFUROUS DIFLUORIDE/CN

=> s e3

L6	1	METHYLIMIDAZOLE/CN
----	---	--------------------

=> d 16 scan

L6	1	ANSWERS	REGISTRY	COPYRIGHT 2008 ACS on STN
IN	1H-Imidazole, methyl-			
MF	C4 H6 N2			
CI	IDS, COM			



D1-Me

ALL ANSWERS HAVE BEEN SCANNED

=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 30346-87-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Imidazole, methyl- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Imidazole, methyl- (7CI, 8CI)  
 OTHER NAMES:  
 CN Methylimidazole  
 MF C4 H6 N2  
 CI IDS, COM  
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS,  
 CASREACT, CBNB, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL,  
 USPATOLD



D1-Me

184 REFERENCES IN FILE CA (1907 TO DATE)  
 17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 186 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	54.83	83.16

FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8  
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> d his

(FILE 'HOME' ENTERED AT 17:05:35 ON 20 AUG 2008)

L1 FILE 'REGISTRY' ENTERED AT 17:05:57 ON 20 AUG 2008  
2 S CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

L2 FILE 'REGISTRY' ENTERED AT 17:06:49 ON 20 AUG 2008  
2 S L1

L3 FILE 'CAPLUS' ENTERED AT 17:07:04 ON 20 AUG 2008  
8 S L1  
L4 0 S L1 AND PY<=2003

L5 FILE 'REGISTRY' ENTERED AT 17:07:53 ON 20 AUG 2008  
18 S CYCLODEXTRIN?/CNS AND TOSYL?/CNS  
E METHYLIMIDAZOLE  
E METHYLIMIDAZOLE/CN  
L6 1 S E3

FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008

=> s 15 and 16  
548 L5  
186 L6  
L7 0 L5 AND L6

=> s 15 and ?imidazo?  
548 L5  
192007 ?IMIDAZO?  
L8 27 L5 AND ?IMIDAZO?

=> s 17 and py<=2003  
24009471 PY<=2003  
L9 0 L7 AND PY<=2003

=> s 18 and py<=2003  
24009471 PY<=2003

L10 15 L8 AND PY<=2003

=> d l10 1-15 ibib abs

L10 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:752349 CAPLUS

DOCUMENT NUMBER: 137:287703

TITLE: Cyclodextrin composition for preparing substances having nano-pores

INVENTOR(S): Yim, Jin Heong; Mah, Sang Kook; Lyu, Yi Yeol; Nah, Eun Ju

PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea

SOURCE: Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1245628	A1	20021002	EP 2001-309616	20011114 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002293989	A	20021009	JP 2002-16754	20020125 <--
JP 4090244	B2	20080528		
KR 2002075720	A	20021005	KR 2002-14259	20020316 <--
PRIORITY APPLN. INFO.:			KR 2001-15883	A 20010327

OTHER SOURCE(S): MARPAT 137:287703

AB The present invention provides a composition for preparing substances having nano-pores, said composition comprising cyclodextrin derivative as porogens, thermostable organic or inorg. matrix precursor, and solvent for dissolving said two solid components. There is also provided a low-k interlayer insulating film having evenly distributed nano-pores with a diameter less than 50 Å, which is required for semiconductor devices. Thus, hydrosilylating 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane with trichlorosilane, followed by reacting the resulting derivative with MeOH gave 2,4,6,8-tetramethyl-2,4,6,8-tetra(trimethoxysilyl)ethylcyclotetrasiloxane, which was ring-opening polymerized to give a polysiloxane (I). Mixing 12% a purified I with 10.0% heptakis(2,4,6-tri-O-methyl)- $\beta$ -cyclodextrin in MIBK, spin coating the resulting mixture on a boron-doped Si wafer, baking at 150° and at 250° for 1 min each and calcining at 420° for 60 min gave a dielec. film with thickness 5909 Å and dielec. constant 2.25.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:537097 CAPLUS

DOCUMENT NUMBER: 137:295212

TITLE: Synthesis of new carnosine derivatives of  $\beta$ -cyclodextrin and their hydroxyl radical scavenger ability

AUTHOR(S): La Mendola, Diego; Sortino, Salvatore; Vecchio, Graziella; Rizzarelli, Enrico

CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita di Catania, Catania, I-95125, Italy

SOURCE: Helvetica Chimica Acta (2002), 85(6), 1633-1643

PUBLISHER: CODEN: HCACAV; ISSN: 0018-019X  
Verlag Helvetica Chimica Acta  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 137:295212

AB Several in vitro and in vivo studies have suggested that carnosine can act as a scavenger of reactive oxygen species and intracellular proton buffer. On the other hand, carnosinase is a specific peptidase able to destroy the biol. active dipeptide. To overcome this constraint,  $\beta$ -cyclodextrin ( $\beta$ -CD) was functionalized with carnosine to give the following new compds.: 6A-[(3-[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino)-3-oxopropyl]amino]-6A-deoxy- $\beta$ -cyclodextrin (1), 6A-[( $\beta$ -alanyl-L-histidyl)amino]- $\beta$ -cyclodextrin (2), and (2AS,3AR)-3A-[(3-[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino)-3-oxopropyl]amino]-3A-deoxy- $\beta$ -cyclodextrin (3). Pulse-radiolysis investigation showed that the  $\beta$ -CD derivs. 1-3 are excellent scavengers of OH $\cdot$  radicals. Their activity is not only due to the formation of the stable imidazole-centered radical, but also to the scavenger ability of the glucose moieties of the macrocycle. This effect is independent of the disposition of the imidazole ring. In fact, the quenching constant values are similar for the three compds.

REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2002:154355 CAPLUS  
DOCUMENT NUMBER: 136:369923  
TITLE: 6A-O-p-toluenesulfonyl- $\beta$ -cyclodextrin  
AUTHOR(S): Byun, Hoe-Sup; Zhong, Ning; Bittman, Robert  
CORPORATE SOURCE: USA  
SOURCE: Organic Syntheses (2000), 77, 225-230

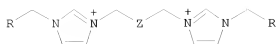
CODEN: ORSYAT; ISSN: 0078-6209  
PUBLISHER: John Wiley & Sons, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 136:369923

AB 6A-O-p-toluenesulfonyl- $\beta$ -cyclodextrin was prepared in one step by regioselective tosylation of  $\beta$ -cyclodextrin with 1-(p-toluenesulfonyl)imidazole in 90 yield.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1999:477262 CAPLUS  
DOCUMENT NUMBER: 131:213872  
TITLE: Syntheses of imidazolium-bridged cyclodextrin dimers and their catalytic properties in the hydrolytic cleavage of p-nitrophenyl alkanoates  
AUTHOR(S): Luo, Mei-Ming; Xie, Ru-Gang; Yuan, De-Qi; Lu, Wei; Xia, Ping-Fang; Zhao, Hua-Ming  
CORPORATE SOURCE: Department of Chemistry, Sichuan University, Chengdu, 610064, Peop. Rep. China  
SOURCE: Chinese Journal of Chemistry (1999), 17(4), 384-390

CODEN: CJOCEV; ISSN: 1001-604X  
PUBLISHER: Science Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English



@2Br<sup>-</sup>

I

AB Two *imidazolium*-bridged cyclodextrin (CD) dimers I (R =  $\beta$ -cyclodextrin-6-yl; Z = p- and m-C<sub>6</sub>H<sub>4</sub>) were prepared by reacting 6-deoxy-6-N-*imidazolyl*- $\beta$ -CD (II) with p- and m-(BrCH<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>, resp. The catalytic properties of I and II in the hydrolytic cleavage of p-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>O<sub>2</sub>CR<sub>1</sub> (III; R<sub>1</sub> = Me, Pr, n-C<sub>5</sub>H<sub>11</sub>, n-C<sub>7</sub>H<sub>15</sub>) were examined. CD dimers showed middling rate enhancements around neutrality. Catalytic rate consts. (k<sub>c</sub>) in the presence of I did not vary much with R<sub>1</sub>. In contrast, dissociation consts. (K<sub>d</sub>) and selectivity factors (k<sub>c</sub>/K<sub>d</sub>) for long-chain esters were much smaller and significantly larger than those for short-chain ones resp., indicating that I have good dimensional-recognition ability and substrate selectivity in the hydrolytic cleavage of III. Their kinetic consequences are briefly interpreted.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 1999:27838 CAPLUS

DOCUMENT NUMBER: 130:97110

TITLE: Activated mono-, di-, oligo- and polysaccharides, reaction products thereof, their preparation and uses  
 INVENTOR(S): Robyt, John F.; Mukerjee, Rupendra  
 PATENT ASSIGNEE(S): Iowa State University Research Foundation, Inc., USA  
 SOURCE: PCT Int. Appl., 53 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858940	A1	19981230	WO 1998-US12767	19980619 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5900478	A	19990504	US 1997-880152	19970620 <--
US 6031085	A	20000229	US 1998-58888	19980413 <--
US 6096882	A	20000801	US 1998-58887	19980413 <--
AU 9880742	A	19990104	AU 1998-80742	19980619 <--
PRIORITY APPLN. INFO.:			US 1997-880152	A 19970620
			WO 1998-US12767	W 19980619

AB Reaction at the interface of an organic solution containing an acidic reactant and

an aqueous alkaline solution containing nonreducing carbohydrates such as sucrose, sugar alcs., cyclodextrins, and polysaccharides imparts a specificity to the reaction for one or more of the primary alc. groups of the carbohydrate reactant. The resulting activated, nonreducing carbohydrate intermediate can then be converted to a series of substantially pure, low mol. weight reaction products, including a sucrose trimer and dianhydrosucrose, and to a series of substantially pure, higher mol. weight reaction products, including 6-O-sucro cyclodextrins and poly-6-O-sucro amylose. Thus, 12.3 g tosyl chloride in toluene was added over 30 min at 22° to an alkaline solution containing 10 g sucrose to give 6,6'-di-O-tosyl sucrose, which (2 g) in MeOH containing 350 mg sodium methoxide was refluxed 24 h to give crystalline 3,6;3',6'-dianhydrosucrose.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:316602 CAPLUS  
DOCUMENT NUMBER: 129:54503  
ORIGINAL REFERENCE NO.: 129:11365a,11368a  
TITLE: Efficient regioselective synthesis of mono-2-O-sulfonyl-cyclodextrins by the combination of sulfonyl imidazole and molecular sieves  
AUTHOR(S): Teranishi, Katsunori; Watanabe, Kayo; Hisamatsu, Makoto; Yamada, Tetsuya  
CORPORATE SOURCE: Faculty of Bioresources, Mei University, Tsu, Mie, 514, Japan  
SOURCE: Journal of Carbohydrate Chemistry (1998), 17(3), 489-494  
CODEN: JCACDM; ISSN: 0732-8303  
PUBLISHER: Marcel Dekker, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 129:54503  
AB Regioselective sulfonylation of cyclodextrins with sulfonyl imidazole and mol. sieves is reported.  
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:706280 CAPLUS  
DOCUMENT NUMBER: 127:359006  
ORIGINAL REFERENCE NO.: 127:70287a,70290a  
TITLE: Synthesis and properties of phenylenebisbenzimidazole capped  $\beta$ -cyclodextrins  
AUTHOR(S): Yuan, De-Qi; Koga, Kazutaka; Fujita, Kahee; Yamaguchi, Masatoshi  
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki, 852, Japan  
SOURCE: Tetrahedron Letters (1997), 38(43), 7593-7596  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Novel capped  $\beta$ -cyclodextrins were synthesized by reaction of 6A,6C (or 6A,6D)-bis-O-tosyl substituted  $\beta$ -cyclodextrins with

o-phenylenediamine and subsequent cyclocondensation with iso-phthalaldehyde 4. Their highly resolved NMR spectra and binding property are also described.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:536959 CAPLUS

DOCUMENT NUMBER: 127:173486

ORIGINAL REFERENCE NO.: 127:33525a,33528a

TITLE: Polymeric fluorophores enhanced by moieties providing a hydrophobic and conformationally restrictive microenvironment

INVENTOR(S): Bieniarz, Christopher; Huff, Jeffrey B.; Cornwell, Michael J.; Tata Venkata, Seshagiri R.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 111 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9728447	A1	19970807	WO 1997-US1429	19970130 <--
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5994143	A	19991130	US 1996-595092	19960201 <--
CA 2244768	A1	19970807	CA 1997-2244768	19970130 <--
CA 2244768	C	20060418		
EP 1019722	A1	20000719	EP 1997-904060	19970130 <--
EP 1019722	B1	20030409		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 2000509412	T	20000725	JP 1997-527793	19970130 <--
AT 237138	T	20030415	AT 1997-904060	19970130 <--
ES 2197332	T3	20040101	ES 1997-904060	19970130
PRIORITY APPLN. INFO.:			US 1996-595092	A 19960201
			WO 1997-US1429	W 19970130

OTHER SOURCE(S): MARPAT 127:173486

AB Fluorescent conjugates are disclosed that are suitable for use in flow cytometry and other biol. applications. The fluorescent conjugates comprise an antibody having a polymeric dye bound thereto. The polymeric dye is preferably enhanced by a hydrophobic and conformationally restrictive moiety either bound thereto or in close association therewith. The hydrophobic and conformationally restrictive moiety is preferably derived from a cyclodextrin. The polymeric dye comprises a polymeric entity having signal-generating groups, such as aminostyryl pyridinium dye residues attached thereto. The fluorescent conjugates exhibit exceptional stability characteristics and avoid many of the problems of energy transfer, bio-conjugability, and solubility

L10 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:545478 CAPLUS

DOCUMENT NUMBER: 123:144423

ORIGINAL REFERENCE NO.: 123:25749a,25752a

TITLE: Design and synthesis of cyclodextrin dimers with two imidazolium residues as catalytic site

AUTHOR(S): Guo, Sheng Jin; Luo, Mei Ming; Gu, Xiao Rong; Xie, Ru

Gang; Zhao, Hua Ming  
 CORPORATE SOURCE: Dep. Chem., Sichuan Univ., Chengdu, 610064, Peop. Rep. China  
 SOURCE: Chinese Chemical Letters (1995), 6(4), 293-6  
 CODEN: CCLEE7  
 PUBLISHER: Chinese Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Reaction of 6-deoxy-6-(N-imidazolyl)- $\beta$ -cyclodextrin with  $\alpha,\alpha'$ -dibromoxylene afforded cyclodextrin dimer with two imidazolium residues as catalytic site and two cyclodextrin cavities as binding site.

L10 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1990:499735 CAPLUS  
 DOCUMENT NUMBER: 113:99735  
 ORIGINAL REFERENCE NO.: 113:16849a,16852a  
 TITLE: Manufacture of cyclodextrin derivatives  
 INVENTOR(S): Iwata, Kazunori; Moriguchi, Soyao  
 PATENT ASSIGNEE(S): Showa Denko K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01319502	A	19891225	JP 1988-153157	19880621 <--
PRIORITY APPLN. INFO.:			JP 1988-153157	19880621

AB Cyclodextrins bearing NHC(COOH)HR groups [R = H, (hydroxy)alkyl, amino, COOH, carbamoyl, SH, MeS or its guanidino derivs., (p-hydroxy)benzyl, 3-indolylmethyl, 4-imidazolylmethyl] on C-2 or C-3, useful in isolating optically active substances, are prepared by sulfonylating cyclodextrins, displacing the sulfonate groups with amino acids or NaI, and carrying out further reactions. Thus,  $\beta$ -cyclodextrin was sulfonated with m-nitrophenyl p-toluenesulfonate and the ester was treated with L-phenylalanine to give mono[(S)-[1-carboxy-2-phenylethyl]amino]-2-deoxy]- $\beta$ -cyclodextrin.

L10 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1990:231794 CAPLUS  
 DOCUMENT NUMBER: 112:231794  
 ORIGINAL REFERENCE NO.: 112:38995a,38998a  
 TITLE: Artificial enzymes: synthesis of imidazole substituted at C-2 of  $\beta$ -cyclodextrin as an efficient enzyme model of chymotrypsin  
 AUTHOR(S): Rao, K. Rama; Srinivasan, T. N.; Bhanumathi, N.; Sattur, P. B.  
 CORPORATE SOURCE: Indian Inst. Chem. Technol., Hyderabad, 500 007, India  
 SOURCE: Journal of the Chemical Society, Chemical Communications (1990), (1), 10-11  
 CODEN: JCCCAT; ISSN: 0022-4936  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 112:231794  
 AB Imidazole has been attached at C(2) on the more open face of  $\beta$ -cyclodextrin to mimic the enzyme chymotrypsin; this chemical model is

shown to be catalytically far superior to that with an imidazole on the primary side [C(6)] of cyclodextrin.

L10 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1989:529801 CAPLUS  
DOCUMENT NUMBER: 111:129801  
ORIGINAL REFERENCE NO.: 111:21642h,21643a  
TITLE: Imidazole derivatives of cyclodextrins as  
chymotrypsin analogs  
INVENTOR(S): Bender, Myron L.; D'Souza, Valerian T.  
PATENT ASSIGNEE(S): Northwestern University, USA  
SOURCE: U.S., 8 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4777250	A	19881011	US 1986-876278	19860619 <--
PRIORITY APPLN. INFO.:			US 1986-876278	19860619
OTHER SOURCE(S):		CASREACT 111:129801; MARPAT 111:129801		
GI		For diagram(s), see printed CA Issue.		
AB		<u>Imidazole</u> derivs. of cyclodextrins (I; D = $\alpha, \beta, \gamma$ -cyclodextrin; P = X, (CH <sub>2</sub> ) <sub>n</sub> X where n = 0-2, X = S, NH, O; Q = substituted Ph with o-carboxyl group, (CH <sub>2</sub> ) <sub>n</sub> where n = 0-3; R = H, Me, Et) function as chymotrypsin analogs. The analog 3A-S-[[2-(2-carboxyphenyl)-5-methyl-1H- <u>imidazol</u> -4-yl]methyl]-3A-thio- $\beta$ -cyclodextrin was synthesized. At its optimum pH of 10.7, its k <sub>cat</sub> , K <sub>m</sub> , and k <sub>cat</sub> /K <sub>m</sub> were 2.8 + 102, 13.3 + 105, and 210, resp. The corresponding values for chymotrypsin (at pH 8.0) were 1.1 + 102, 4.0 + 105, and 275, resp.		

L10 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1988:56475 CAPLUS  
DOCUMENT NUMBER: 108:56475  
ORIGINAL REFERENCE NO.: 108:9449a,9452a  
TITLE: Catalytic activity of  $\beta$ -cyclodextrin-histamine  
AUTHOR(S): Ikeda, Tsukasa; Kojin, Ryoichi; Yoon, Chul Joong;  
Ikeda, Hiroshi; Iijima, Masao; Toda, Fujio  
CORPORATE SOURCE: Fac. Eng., Tokyo Inst. Technol., Tokyo, 152, Japan  
SOURCE: Journal of Inclusion Phenomena (1987), 5(1),  
93-8  
CODEN: JOIPDF; ISSN: 0167-7861  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB  $\beta$ -Cyclodextrin ( $\beta$ -CD) was modified by a histamine group to make a model of  $\alpha$ -chymotrypsin. Enzymic turnover reaction was realized with  $\beta$ -CD-histamine at around neutral pH value. Compared with amino- $\beta$ -CD, the catalytic activity of  $\beta$ -CD-histamine was caused by the imidazole group. Using several substrates in the hydrolytic reactions, it was shown that  $\beta$ -CD-histamine has a structural selectivity for substrates which are structurally different to each other.

L10 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1985:484091 CAPLUS  
DOCUMENT NUMBER: 103:84091

ORIGINAL REFERENCE NO.: 103:13469a,13472a  
 TITLE: Synthesis and evaluation of a miniature organic model of chymotrypsin  
 AUTHOR(S): D'Souza, Valerian T.; Hanabusa, K.; O'Leary, T.; Gadwood, Robert C.; Bender, Myron L.  
 CORPORATE SOURCE: Dep. Chem., Northwestern Univ., Evanston, IL, 60201, USA  
 SOURCE: Biochemical and Biophysical Research Communications ( 1985), 129(3), 727-32  
 CODEN: BBRCA9; ISSN: 0006-291X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB An artificial chymotrypsin, with all the features of the real chymotrypsin, namely a binding site (from cyclodextrin) attached to a catalytic site containing an imidazolyl group, a carboxylate group, and a hydroxyl group, was synthesized. This artificial chymotrypsin has a mol. weight of only 1365, whereas the real enzyme has a mol. weight of 24,800. However, from preliminary measurements, both the real and artificial enzymes have approx. the same catalytic activity (both rate and binding consts.).

L10 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:476396 CAPLUS  
 DOCUMENT NUMBER: 73:76396  
 ORIGINAL REFERENCE NO.: 73:12487a,12490a  
 TITLE: Inclusion compounds. XXII. Cyclodextrin-imidazole compounds  
 AUTHOR(S): Cramer, Friedrich; Mackensen, Georg  
 CORPORATE SOURCE: Abt. Chem., Max-Planck-Inst. Exptl. Med., Goettingen, Fed. Rep. Ger.  
 SOURCE: Chemische Berichte (1970), 103(7), 2138-47  
 CODEN: CHBEAM; ISSN: 0009-2940  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German

AB Non-stoichiometric amorphous title compds. (I) were prepared by reaction of a cyclodextrin (II) [6-O-(RSO2)(-substituted) derivs. of  $\alpha$ -or- $\beta$ -II (where R = Me, p-MeC6H4, or Ph and n = 6 or 7), or the 6-iodo-6-deoxy or pertrifluoroacetyl derivative of  $\beta$ -II] with 4(5)-(R1-substituted)-imidazoles (III) (where R1 = H, CH2NH2, CH2Cl, or CH2CH2NH2). The catalytic effect of the following I on the hydrolysis rate of AcOC6H4NO2-p at pH 7.5 was determined [II component, III derivative or component where X = 4(5)-imidazolyl, and rate constant (105 sec-1) given]: -, -, 1.2;  $\alpha$ -II, -, 3.2;  $\beta$ -II, -, 5.9; 6-amino-6-deoxy derivative of  $\alpha$ -II, -, 122; 6-amino-6-deoxy derivative of  $\beta$ -II, i, 245;  $\beta$ -II, (CH2OCH2X)2, 384;  $\beta$ -II, (CH2NHCH2X)3, 36.5;  $\beta$ -II, (CH2NHCH2CH2X)3, 61.5;  $\beta$ -II, (CH2NHCH2CH2X)4, 128;  $\beta$ -II, (CH2X)4, 54;  $\beta$ -II, (CH2X)6, 84.5;  $\alpha$ -II, (CH2OCH2X)3, 25;  $\alpha$ -II, (CH2NHCH2X)2, 44.7; and  $\alpha$ -II, (CH2NHCH2CH2X)3, 76.8. Thus, a model reaction for the serine OH group cooperation with a histidine imidazolyl group in the active site of chymotrypsin was obtained.

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